

Patent claims:

1. A filler wire guide tube for guiding a filler wire, the base material of the wire guide tube being plastic, **characterized** in that in the cross section of the wire guide tube is formed by an inner region containing a particulate additive comprising at least polytetrafluoroethylene (PTFE) and an outer layer not blended with such an additive.
2. The filler wire guide of patent claim 1, **characterized** in that the additive composition includes particulate silicon.
3. The filler wire guide of patent claim 1 or 2, **characterized** in that the amount of the additive composition is about 12 – 20 % in the weight of the additive containing region, and the additive composition comprises polytetrafluoroethylene (PTFE) by about 12 – 17 wt. % and silicon by about 1 – 3 wt. %.
4. The filler wire guide of any one of patent claims 1 - 3, **characterized** in that the thickness of the additive containing region is 200 - 500 μm .
5. The filler wire guide of any one of patent claims 1 - 4, **characterized** in that the base material of the wire guide tube is high-density polyethylene (HDPE).
6. The filler wire guide of any one of patent claims 1 - 5, **characterized** in that the wire guide inner diameter is in the range of 2 - 4 mm and the outer diameter in the range of 4 - 7 mm.
7. The filler wire guide of any one of patent claims 1 - 6, **characterized** in that the additive composition includes molybdenum sulfide.